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☐ 1: P30955. OLFACTORY RECEPTO...[gi:400670]

BLink, Domains, Links

LOCUS P30955 313 aa linear MAM 01-FEB-1994
 DEFINITION OLFACTORY RECEPTOR-LIKE PROTEIN DTMT.
 ACCESSION P30955
 VERSION P30955 GI:400670
 DBSOURCE swissprot: locus OLFD_CANFA, accession P30955;
 class: standard.
 created: Jul 1, 1993.
 sequence updated: Jul 1, 1993.
 annotation updated: Feb 1, 1994.
 xrefs: gi: 890, gi: 891, gi: 108128
 xrefs (non-sequence databases): GCRDBGCR_0343, PFAMPF00001,
 PROSITEPS00237
 KEYWORDS G-protein coupled receptor; Transmembrane; Glycoprotein; Multigene
 family; Olfaction.
 SOURCE Canis familiaris (dog)
 ORGANISM Canis familiaris
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 REFERENCE 1 (residues 1 to 313)
 AUTHORS PARMENTIER,M., LIBERT,F., SCHURMANS,S., SCHIFFMANN,S., LEFORT,A.,
 EGGERICKX,D., LEDENT,C., MOLLEREAU,C., GERARD,C., PERRET,J.,
 GROOTEGOED,A. and VASSART,G.
 TITLE Expression of members of the putative olfactory receptor gene
 family in mammalian germ cells
 JOURNAL Nature 355 (6359), 453-455 (1992)
 MEDLINE 92131132
 PUBMED 1370859
 REMARK SEQUENCE FROM N.A.
 TISSUE=TESTIS

COMMENT -----
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 collaboration between the Swiss Institute of Bioinformatics and
 the EMBL outstation - the European Bioinformatics Institute.
 The original entry is available from <http://www.expasy.ch/sprot>
 and <http://www.ebi.ac.uk/sprot>

[FUNCTION] PUTATIVE ODORANT OR SPERM CELL RECEPTOR.
 [SUBCELLULAR LOCATION] INTEGRAL MEMBRANE PROTEIN.
 [SIMILARITY] BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

FEATURES Location/Qualifiers
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 Site 5
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Region 26..49
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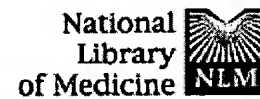
ORIGIN

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☐ 1: Nature. 1992 Jan 30;355(6359):453-5.

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Expression of members of the putative olfactory receptor gene family in mammalian germ cells.

PubMed Services

Parmentier M, Libert F, Schurmans S, Schiffmann S, Lefort A, Eggerickx Ledent C, Mollereau C, Gerard C, Perret J, et al.

IRIBHN, Universite Libre de Bruxelles, Belgium.

Related Resources

A series of genomic and complementary DNA clones encoding new putative members of G protein-coupled receptors were isolated using homology cloning and low-stringency polymerase chain reaction. Among the unidentified receptor ('orphan receptors'), a human genomic clone (HGMP07) was characterized by the presence of its transcripts in the testis and by its belonging to a large subfamily genes sharing extensive sequence similarities. Sequence comparison demonstrates that this gene subfamily is the human counterpart of the putative rat olfactory receptors cloned recently. Another 48 members of the family were cloned. Northern blotting further demonstrated the presence of olfactory receptor transcripts in germ cells. Our finding suggests that a common receptor gene family encodes olfactory receptors and sperm cell receptors that could be involved in chemotaxis during fertilization.

MeSH Terms:

- Amino Acid Sequence
- Animal
- Base Sequence
- Blotting, Northern
- Cloning, Molecular
- Comparative Study
- Dogs
- GTP-Binding Proteins/genetics*
- Human
- Male
- Molecular Sequence Data
- Multigene Family*
- Olfactory Mucosa/physiology
- Oligodeoxyribonucleotides
- Organ Specificity

- Polymerase Chain Reaction
- RNA/genetics*
- RNA/isolation & purification
- RNA, Messenger/genetics
- Rats
- Receptors, Cell Surface/genetics*
- Sequence Homology, Nucleic Acid
- Species Specificity
- Spermatozoa/physiology*
- Support, Non-U.S. Gov't
- Testis/physiology*
- Transcription, Genetic

Gene Symbols:

- HGMP07

Substances:

- Oligodeoxyribonucleotides
- RNA, Messenger
- Receptors, Cell Surface
- RNA
- GTP-Binding Proteins

PMID: 1370859 [PubMed - indexed for MEDLINE]

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